

# **Material Safety Data Sheet**

## 1. Identification

a) Product Name	ACTIONZYME-ALK-CELL L
b) Synonyms:	None
c) Recommended Use:	Enzyme for Detergent industries
d) Uses advised against:	None
e) Data on Ingredients:	Protein

**Company Information** 

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**Managed Care Eco Solutions.** 

## 2. Hazards Identification

# Classification

a) Skin Corrosion/irritation	Category 2
b) Serious Eye Damage/Eye Irritation	Category 2
c) Respiratory Sensitization	Category 1
d) Specific target organ toxicity (single	Category 3
exposure)	



# Label Elements Signal Word





# **Precautionary Statements:**

- 1. Avoid breathing dust/mist/vapor/spray.
- 2. Use only outdoors or in a well ventilated area.
- 3. Wear respiratory protection.
- 4. Avoid contact with Skin, Eyes and Clothing.
- 5. Wear protective gloves and safety glasses with side shields.
- 6. Ensure regular cleaning of equipment, work area and clothing.
- 7. Do not ingest.

# 3. Composition and Information on Ingredients

a) Product Name:	ACTIVOZYME-ALK-CELL L
b) Product description:	Protein
c) Product Use:	Enzyme for detergent application
d) Active components	Cellulase enzyme
e) Hazardous component	None
f) Chemical Name:	Cellulase enzyme
g) CAS No.:	9012-54-8
h) E C No.:	3.2.1.4



#### 4. First Aid Measurement

#### Inhalation:

In case of vapor inhaled, remove from contaminated area to fresh air. Report the situation. Seek medical attention if allergic response is exhibited.

#### **Eye contact:**

In Case of contact with eyes, flush eyes with low pressure water for at least 15 minutes. If irritation develops, seek medical attention.

#### **Skin Contact:**

In case of contact with skin, wash skin with soap and cold water. Remove contaminated clothing and wash.

# Ingestion:

If swallowed, rinse mouth and throat thoroughly with tap water. Drink water.

#### 5. FIRE FIGHTING MEASURES

## **Suitable extinguishing media:**

Standard procedure for chemicals fires. Foam. Water.

Non-suitable extinguishing media:

None.

**Specific exposure hazards:** 

None.

## **Protective equipment:**

No special requirements.



#### 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions/ Emergency procedures:

Use only with adequate ventilation/personal protection. Avoid breathing dust or spray mist. Avoid formation of dust and aerosols. (See section 8).

#### **Containment methods:**

Prevent further leakage or spillage if safe to do so.

## **Cleanup procedures:**

Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid formation of aerosol.

#### 7. HANDLING AND STORAGE

## Safe handling:

Never handle liquid without appropriate personal protective equipment in accordance with Section 8. Avoid splashing and high pressure washing. Ensure good ventilation of the room when handling.

## **Storage:**

Keep container tightly closed in a cool, dry, well-ventilated place.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Appropriate engineering controls:**

Adequate ventilation.

# **Eye/Face protection:**

Wear protective glasses or eye shield.



# **Skin protection:**

Impermeable gloves recommended.

# **Respiratory protection:**

Use NIOSH approved respiratory protection such as full-face mask.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown Liquid.
Odor:	Characteristic enzyme odor.
Odor Threshold	Not available
Ph	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling rage	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/ lower flammability or explosive limits	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Relative Density	Not available
Solubility	Miscible
Partition coefficient: n-octenol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

## **10. STABILITY AND REACITIVITY**

**Reactivity:** 

	Not available.
	Chemical stability:
	Stable under normal storage conditions.
	Hazardous to reactions:
	Not available.
	Conditions to avoid:
	Not available.
	Incompatible materials:
	Not available.
	Hazardous decomposition products:
	Not available.
11.	TOXICOLOGICAL INFORMATION
	Routes of exposure:
	Eye contact, skin contact, ingestion, vapor inhalation.
	Symptoms:
	Immediate:
	Can cause irritation to the eyes, skin, mucus membranes, and the upper
	respiratory tract.
	Delayed:

Vapor inhalation exposure may lead to allergic sensitization based on exposure level, duration, and susceptibility.

Acute toxicity: Not available.

Eye irritation: May cause minor irritation.

Skin irritation: May cause minor irritation.

Respiratory irritation: May cause minor irritation.

# **Sensitization towards product:**

Inhalation of vapor may cause allergic respiratory reactions, including asthma, in susceptible individuals on repeated exposure.

Germ cell mutagenicity: Not available

Reproductive toxicity: Not expected to produce reproductive toxicity

Carcinogenicity: Not classified as a carcinogen by IARC, OSHA, or NTP

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available.

**Persistence and degradability:** Product is readily Biodegradable.

**Bio accumulative potential:** Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

#### 13. DISPOSAL CONSIDERATIONS

No Special disposal method required, except that in accordance with all application federal, state, and local regulations.

**UN Number:** Not Classified.

**UN Proper Shipping Name:** Not Classified.

**Transportation Hazard Class:** Not Classified.

Packing Group: Not classified.

Transport Environmental Hazard: Not classified.

**Transport Special Precautions:** Not Classified.

MARPOL: Not classified.

#### 15. REGULATORY INFORMATION

All components of this product are listed or exempt from listing on the TSCA Inventory.

#### 16. OTHER INFORMATION

Prepared by	QA/QC Department, MCES
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